## **APPENDIX B**

AREA .. SUM(I,A(I)) = E = 0;

VELOCITY(VINDX) .. VEL(VINDX) =E= VSCALE

5 SUM(I\$(ORD(I) LE ORD(VINDX)), A(I));

POSITION .. SUM(I,VEL(I)) = E = FINALPOS \* SCALEFACT;

VLIMITP(I) .. SUM(VINDX\$(ORD(VINDX) LE ORD(I)),A(I-

(ORD(VINDX)+1))\*(VOLTS(VINDX)+KBACK\*VSCALE))

=L= VOLTLIM;

10 VLIMITN(I) .. SUM(VINDX\$(ORD(VINDX) LE ORD(I)), A(I-

(ORD(VINDX)+1))\*(VOLTS(VINDX)+KBACK\*VSCALE))

=G= -VOLTLIM

- % A(I) are the current commands at time T(I) spaced equally at time DT.
- 15 % VOLTS(VINDX) is a table of voltages representing the unit pulse response to

% a unit output in current command. VOLTLIM is the voltage limit at saturation.